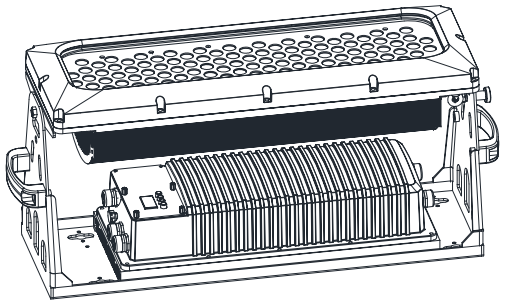
Innovation, Quality, Performance



BW-108E-3RGBW-DXX-RL

User Manual

Please read the instructions carefully before use

5. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

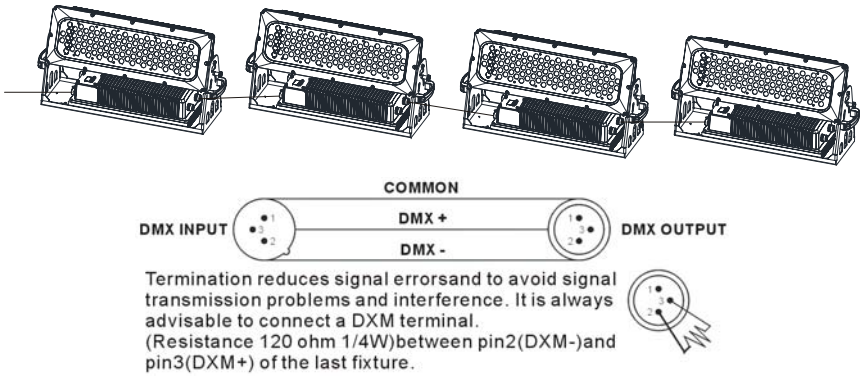
1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

6. Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

4.4 DMX512connections


COMMON
DMX INPUT
DMX +
DMX -
DMX OUTPUT
Termination reduces signal errorsand to avoid signal transmission problems and interference. It is always advisable to connect a DXM terminal.
(Resistance 120 ohm 1/4W)between pin2(DXM-)and pin3(DXM+) of the last fixture.

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4/Pin 5: Not used.

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1. Safety Instructions

Please read the instructions carefully which includes important information about the installation, operation and maintenance.

WARNING

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

Caution：

- All fixtures are intact from the manufacturer, please operate follow up the user manual, artificial fault are not under guarantee repair.
- Unpack and check carefully there is no transportation damage before using the unit。
- Do install and operate by operator。
- Use safety chain when fixes the unit。
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature TA：40℃. Don't operate it where the temperature is higher than this.
- Don't connect the device to any dimmer pack.
- First run, there will be smoke or smells, and all disappearing a few minutes later.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Look over power wires carefully, replace immediately if there is any damage.
- Unit surface temperature may reach up to 60℃. Don't touch the housing bare-hand during its operation.
- Never run on for a long time lest shortening lifespan.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happen, cut off the mains power immediately.
- Do not operate in dirty and dusty environment, also cleaning fixtures regularly.

4.3 DMX 512 Configuration

4CH(4 MODE)				5CH(5 MODE)				
Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch5
RED	GREEN	BLUE	WHITE	RED	GREEN	BLUE	WHITE	DIMMER
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

7CH(4C MODE)						
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
RED	GREEN	BLUE	WHITE	COLOR	DIMMER	STROBE
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	248-255 Preset color32 240-247 Preset color31 232-239 Preset color30 225-231 Preset color29 217-224 Preset color28 209-216 Preset color27 202-208 Preset color26 194-201 Preset color25 186-193 Preset color24 178-185 Preset color23 171-177 Preset color22 163-170 Preset color21 155-162 Preset color20 148-154 Preset color19 140-147 Preset color18 132-139 Preset color17 124-131 Preset color16 117-123 Preset color15 109-116 Preset color14 101-108 Preset color13 093-100 Preset color12 086-092 Preset color11 078-085 Preset color10 070-077 Preset color9 063-069 Preset color8 055-062 Preset color7 047-054 Preset color6 039-046 Preset color5 032-038 Preset color4 024-031 Preset color3 016-023 Preset color2 008-015 Preset color1 001-007 OFF	255 100% 0 0%	248-255 OPEN 240-247 RANDOM STROBE 232-239 OPEN 190-231 SLOW CLOSE FAST OPEN 182-189 OPEN 140-181 SLOW OPEN FAST CLOSE 132-139 OPEN 16-131 8-15 OPEN 0-7 OFF

4. 2 DMX Controller

Use universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the Addr is showing on the display. Pressing **ENTER** button and the display will blink. Use the **DOWN** or **UP** buttons to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again.

Please refer to the following diagram to address your DMX512 channel for the first 4 units：

4 Channels：

4D Channels：

4C Channels：

- Do not allow children to operate the fixture.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together arounding other cables.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not open the unit as there are no user serviceable parts inside. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Disconnect the mains power if the fixture is not used for a long time.
- Do use original packing materials once transport it again.
- Do not look directly at the LED light beam while the fixture is on.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

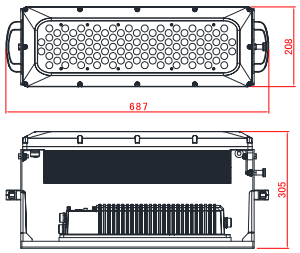
The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. Technical Specfications

- Three DMX Channel Modes: 4 Channel Mode & 5 Channel Mode & 7 Channel Mode.
- Digital Display for Address and Function Setting.
- VD-T Controller for Channel Mode and Address Setting.
- Built-in Master/Slave preprogram function.

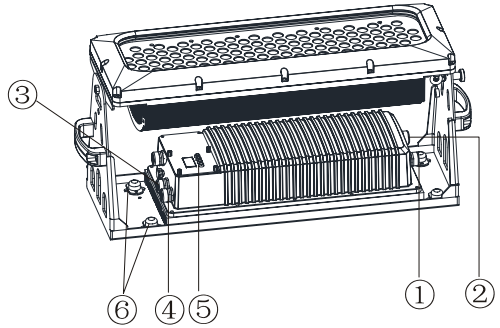
- **Light source:** 3W LED x 108pcs
- **Voltage:** AC 100-240V/50Hz~60Hz
- **Power consumption:** 300W
- **Lens Option**: D6, D15, D25, D40, D60, D80

- **IP:** 66
- **Dimension**：687X208X305 mm
- **Weight**：22.2 kg



3. How To Set The Unit

3.1 Control Panel



①: Power
Water proof connectors for power input.

②: DMX input
Water proof connectors for DMX 512 operation, 3-pin XLR cable to input DMX signal.

③: Connect to lamp panel.

④: DMX output
Water proof connectors for DMX 512 operation, 3-pin XLR cable to output DMX signal.

LED Mode

1. Press the MENU button until LEd is displayed, Press ENTER.
2. The display will show either on or oFF. Select on to keep display on at all times, or oFF to switch to have the LED display switch off after 60 seconds. Once select, press ENTER to confirm or automatically exit menu mode without any change after one minute, Back to the functions without any change press MENU button.

Self Test

Press the MENU button until tESt is displayed. Press ENTER and the fixture will now run a self test program. To stop the self test press the MENU button.

Temperature Test

Press the MENU button until tEMP is displayed. Press ENTER and the temperature of the fixture will be displayed. Press ENTER to exit.

Fixture Hours

Press the MENU button until FHrS is displayed. Press ENTER and the display will show the number of working hours of the unit. Press ENTER to exit.

Software version

Press the MENU button until uEr is displayed. Press ENTER and the software version will now be displayed. Press ENTER to exit.

4. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By DMX controller
3. By VD-T

VD-T is a specially designed handy setup tool for all Visio integral fixtures and Controllers. By connecting VD-T to any fixture via XLR, you can easily setup DMX Address, Channel Modes, White Balance, Manual Colors, and Fade Speed functions. If you use VD-T to control the unit, you can follow User Manual of VD-T.

4. 1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, synchronized light show. This function is good when you want an instant show. In Master/Slave mode, the first fixture whose DMX input jack has with nothing connect will be master automatically, set other units to slave mode.

bALA Adjust White Balance

1. Press the MENU button until bALA is displayed. Press ENTER. Either rEd（Red）, GrEE（Green）,bLuE（Blue）will be displayed.
2. Press the UP or DOWN buttons to find your desired color and press ENTER to confirm.
3. Using the UP or DOWN buttons adjust the value (125~255) to your desire.
4. When you find your desired White Balance value, press ENTER to confirm or automatically exit menu mode without any change after one minute. Back to the functions without any change press MENU button.

CI Ph Cipher Setup

1. Press the MENU button until CI Ph is displayed. Press ENTER.
2. 123 will now be displayed and flashing. Press the UP or DOWN buttons to adjust the password (0~9999) to your desire.
3. When you find your desired password, press ENTER to confirm or automatically exit menu mode without any change after one minute. Back to the functions without any change press MENU button.

LoC Key Lock

1. Press the MENU button until LoC is displayed. Press ENTER. Either YES or no will be displayed.
2. Press the UP or DOWN buttons to select YES（lock the key board）or no （normal）,Once select, press ENTER to confirm or automatically exit menu mode without any change after one minute, Back to the functions without any change press MENU button.

bLnd Blackout Mode

1. Press the MENU button until bLnd is displayed, Press ENTER. Either YES or no will be displayed.
2. To activate Blackout, press UP or DOWN buttons until YES is displayed, press ENTER to confirm and exit, the fixture will now be in Blackout mode. To deactivate Blackout mode, select no and press ENTER.

d ISP Display Inversion

1. Press the MENU button until d ISP is displayed, Press ENTER.
2. Press the UP button to select dS IP, the display will reverse 180°,or d ISP to change the display back. Press ENTER when you made your desired setup.

⑤: Display and Button

Display: To show the menu and the selected functions.

Button:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

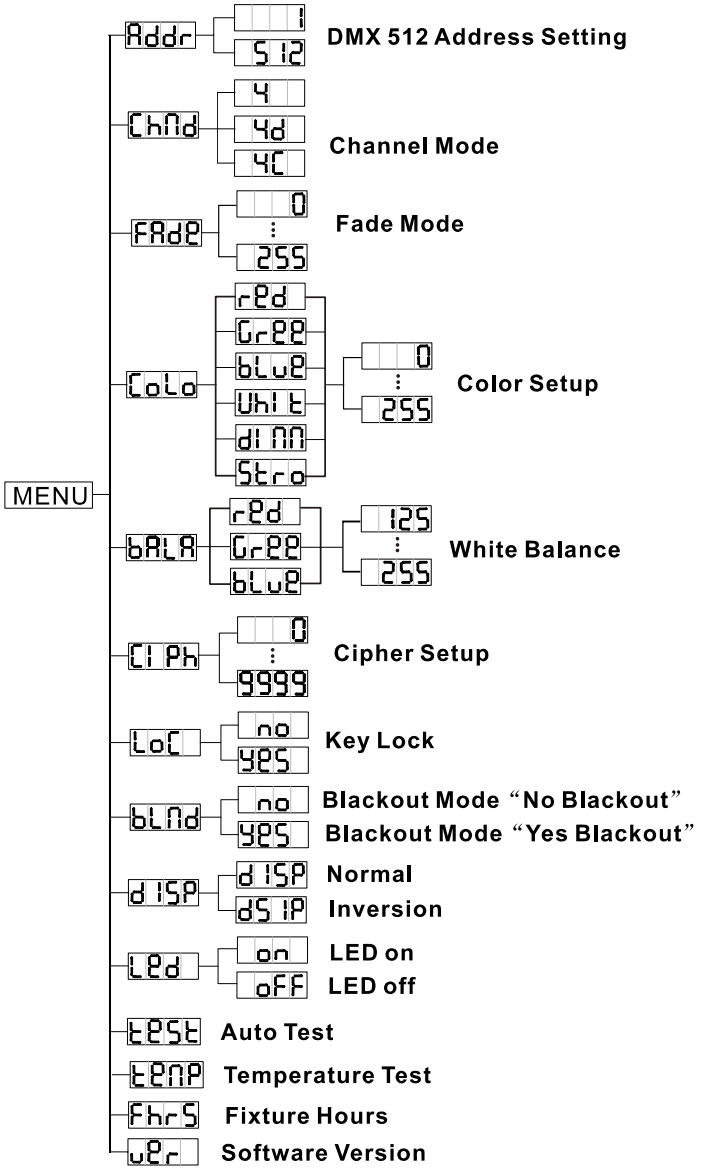
⑥:Nut for Omega Clamp

When using the fixture as fixed installation at outdoor place, please remove the Nut for Omega Clamp to avoid rusting.

3.2. Main Functions

Open the cover and remove it then you can set the menu manually. To select any functions, press **MENU** button until the required one is shown on the display. Select the function by **ENTER** button and the display will blink. Use the **DOWN** or **UP** buttons to change the mode. Once the required mode has been selected, press **ENTER** button to setup or it will automatically return to the main functions without any change after idling one minute. Back to the functions without any change press **MENU** button. The main functions are shown below:

Once you set LoC to YES, after running in show mode for 5 minutes without any change or restarting the unit, the key board become locked. Press ENTER button to enable the menu, the display will show 0, press the UP or DOWN buttons until it shows password you have set before, then press ENTER to unlock. Initial password is 123.



Addr DMX 512 Address Setting

1. Press the MENU button until Addr is displayed. Press ENTER.
2. The current address will now be displayed and flashing. Press the UP or DOWN buttons to find your desired address. When you have found your desired DMX address press ENTER to confirm or automatically exit menu mode without any change after one minute. Back to the functions without any change press MENU button.

ChNd Channel Mode

1. Press the MENU button until ChNd is displayed. Press ENTER. Either 4 （4channel mode）or 4C (5 channel mode) or 4d （7channel mode）will be displayed.
2. Press the UP or DOWN buttons to choose your desired DMX mode and press ENTER to confirm and exit. Or automatically exit menu mode without any change after one minute. Back to the functions without any change press the MENU button.

FAdE Fade Mode

1. Press the MENU button until FAdE is displayed. Press ENTER.
2. Press the UP or DOWN buttons to adjust the fade speed to your desire, 0 being the fastest fade and 255 being the slowest.
3. When you find your desired fade speed, press ENTER to confirm or automatically exit menu mode without any change after one minute, Back to the functions without any change press MENU button.

CoLo Color Setup

1. Press the MENU button until CoLo is displayed. Press ENTER. rEd will now be displayed, press ENTER, Use the UP or DOWN buttons to adjust to your desired intensity(0~255). Press ENTER after the intensity adjustment.
2. After you press ENTER then press UP and GrEE will be displayed, press ENTER, Use the UP or DOWN buttons to adjust the value from 0 to 255.
3. Follow these steps to make adjustments of bLuE and Uhite until your desired color is reached. After adjustingUhite, press ENTER then press the UP button.
4. dIMM （Dimmer）will be displayed, press ENTER, this is the master dimmer control. In this submenu you can adjust the intensity of your created color. Use the UP or DOWN buttons to adjust the intensity from 0 to 255.
5. Press ENTER once you have adjusted the master dimmer, Press the UP button and Stro （Strobe）will be displayed. This is the strobe function. If you choose to activate strobe, press ENTER. Use the UP or DOWN buttons to adjust the speed of the strobe, choose 0 to turn the strobe off and 255 being the fastest strobe. Press ENTER once you have made your adjustments.
6. Once your desired color and settings are reached, press ENTER to confirm or automatically exit menu mode without any change after one minute, Back to the functions without any change press MENU button.